

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report 18. 4. 1925 When handed in at Local Office 19 Port of Rotterdam
 No. in Survey held at Rotterdam Date, First Survey 13. 10. 24. Last Survey 15. 4. 1925
 Reg. Book. on the *Sted. Tweeders Steamer "MARIANA"* (Number of Visits 31)
 Built at Rotterdam By whom built *Rot. Droogdok M.* Yard No. 96 When built 1925
 Engines made at Rotterdam By whom made *Rot. Droogdok M.* Engine No. 103 & 104 when made 1925
 Boilers made at Rotterdam By whom made *Rot. Droogdok M.* Boiler No. 191 & 93. when made 1925
 Registered Horse Power Owners *Curacaense Scheep M.* Port belonging to *Willemstad*
 Nom. Horse Power as per Rule 236 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended *Venezuela, Curacao.*

ENGINES, &c.—Description of Engines *Two sets of triple expansion engines* Revs. per minute 160
 Dia. of Cylinders *12 1/4 x 10 1/2 x 5 5/8* Length of Stroke *124 1/16"* No. of Cylinders *2 x 3 = 6* No. of Cranks *2 x 3 = 6*
 Crank shaft, dia. of journals *as per Rule 170 mells* Crank pin dia. *170 mells* Crank webs *Mid. length breadth 350 mells* Thickness parallel to axis *156 mells*
 Intermediate Shafts, diameter *as per Rule 164 mells* Thrust shaft, diameter at collars *as per Rule 172 mells*
 Tube Shafts, diameter *as per Rule 164 mells* Screw Shaft, diameter *as per Rule 164 mells* Is the shaft fitted with a continuous liner Yes
 Bronze Liners, thickness in way of bushes *as per Rule 16 mells* Thickness between bushes *as per Rule 15 mells* Is the after end of the liner made watertight in the propeller boss Yes
 If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes
 If two liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft Yes
 Propeller, dia. *8' 3"* Pitch *7' 0"* No. of Blades *4* Material *Bronze* whether Moveable No Total Developed Surface *32* sq. feet
 Feed Pumps worked from the Main Engines, No. *2 x 1* Diameter *130 mells* Stroke *100 mells* Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. *2 x 1* Diameter *130 mells* Stroke *100 mells* Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size *2 New pumps 6' x 8 1/2' x 18"* Pumps connected to the Main Bilge Line { No. and size *1. 6' x 1 1/2' x 6" 7 1/2' x 5' x 6"*
 How driven *Steam* How driven *Steam*
 Ballast Pumps, No. and size *6' x 7 1/4' x 6"* Lubricating Oil Pumps, including Spare Pump, No. and size
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room *4 a 1 1/2" one in bell a 1 1/2" in bunker 1 a 2"*
 In Holds, &c. *One in forehold a 3" one on forepeak flat a 2" 3 in pump room a 2" 6 suction in boyancy spaces, connected to main cargo line but fitted with non return valves*
 Main Water Circulating Pump Direct Bilge Suctions, No. and size *One a 1 1/2"* Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size *One a 1 1/2"*
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes
 Are all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Overboard Discharges above or below the deep water line Above
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
 What Pipes are carried through the bunkers None How are they protected
 What pipes pass through the deep tanks Have they been tested as per Rule
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another Yes Is the Shaft Tunnel watertight No tunnel Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers *4160 sq. ft.*
 Is Forced Draft fitted Yes No. and Description of Boilers *2 Single ended Marine* Working Pressure *100 lbs*
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting 24. 11. 23 Main Boilers 24. 11. 23 Auxiliary Boilers Donkey Boilers
 (If not state date of approval) 14. 12. 23
 Superheaters General Pumping Arrangements 4. 1. 24, 21. 1. 24, 6. 3. 24 Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:— *One set of top end bolts and nuts, One set of bottom end bolts and nuts, one set of main bearing bolts and nuts, one set of coupling bolts, one set of piston rings, one set of feed and bilge pump valves, a quantity of assorted bolts and nuts and iron of various sizes, and further as per notes vessels attached list.*

The foregoing is a correct description, *ROTTERDAMSCHЕ DROOGDOCK MAATSCHAPPEL*
 DIRECTOR *H. Mape*
 Manufacturer.

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